

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A coated composite cylinder produced by a process comprising:

drawing a metal casing on an external surface of a composite cylinder while the composite cylinder has composite material in an uncured state, thereby creating a bond between the metal casing and the composite material based on compression and non-compression adhesion without the addition of a separate adhesive material, the metal casing including a surface formed with a surface pattern or embossment to facilitate modifying by a metal treating process and/or plating with a coating layer.

2. (original) The coated composite cylinder of claim 1, wherein the drawing of the metal casing includes working the cylinder to dimensional accuracy.

3. (original) The coated composite cylinder of claim 1, wherein the composite cylinder comprises a carbon fiber composite roll.

4. (canceled)

5. (original) The coated composite cylinder of claim 1, wherein the metal casing includes a surface modified by a metal treating process and/or plated with a coating layer.

6. (original) The coated composite cylinder of claim 5, wherein the metal casing surface is modified by a metal treating process, the metal treating process comprising rolling the surface for a threaded pattern, helical pattern, or a pattern of flutes.

7. (original) The coated composite cylinder of claim 5, wherein the metal casing surface is plated with a coating layer, the plating including an electrolytic coating.

8. (original) The coated composite cylinder of claim 5, wherein the metal casing surface is plated with a coating layer, the plating including a hard chromium plating or nickel plating.

9. (currently amended) A machine for making paper including a coated composite cylinder having a wear resistant surface for increasing the service life of the cylinder, the coated composite cylinder being produced by a process comprising:

drawing a metal casing on an external surface of a composite cylinder while the composite cylinder has composite material in an uncured state, thereby creating ~~an adhesive~~ a bond between the metal casing and the composite material based on compression and non-compression adhesion without the addition of a separate adhesive material, the metal casing including a surface formed with a surface pattern or embossment to facilitate modifying by a metal treating process and/or plating with a coating layer.

10. (previously presented) The machine of claim 9, wherein the drawing of the metal casing includes working the cylinder to dimensional accuracy.

11. (previously presented) The machine of claim 9, wherein the composite cylinder comprises a carbon fiber composite roll.

12. (canceled)

13. (previously presented) The machine of claim 9, wherein the metal casing includes a surface modified by a metal treating process and/or plated with a coating layer.

14. (previously presented) The machine of claim 13, wherein the metal casing surface is modified by a metal treating process, the metal treating process comprising rolling the surface for a threaded pattern, helical pattern, or a pattern of flutes.

15. (previously presented) The machine of claim 13, wherein the metal casing surface is plated with a coating layer, the plating including an electrolytic coating.

16. (previously presented) The machine of claim 13, wherein the metal casing surface is plated with a coating layer, the plating including a hard chromium plating or nickel plating.

17. (new) A coated composite cylinder produced by a process comprising:
drawing a metal casing on an external surface of a composite cylinder while the composite cylinder has composite material in an uncured state, thereby creating a bond between the metal casing and the composite material based on compression and non-compression adhesion without the addition of a separate adhesive material,

wherein the metal casing includes a surface modified by a metal treating process comprising rolling the surface for a threaded pattern, helical pattern, or a pattern of flutes.

18. (new) The coated composite cylinder of claim 17, wherein the drawing of the metal casing includes working the cylinder to dimensional accuracy.

19. (new) The coated composite cylinder of claim 17, wherein the composite cylinder comprises a carbon fiber composite roll.

20. (new) A machine for making paper including a coated composite cylinder having a wear resistant surface for increasing the service life of the cylinder, the coated composite cylinder being produced by a process comprising:

drawing a metal casing on an external surface of a composite cylinder while the composite cylinder has composite material in an uncured state, thereby creating a bond

between the metal casing and the composite material based on compression and non-compression adhesion without the addition of a separate adhesive material,

wherein the metal casing includes a surface modified by a metal treating process comprising rolling the surface for a threaded pattern, helical pattern, or a pattern of flutes.

21. (new) The machine of claim 20, wherein the drawing of the metal casing includes working the cylinder to dimensional accuracy.

22. (new) The machine of claim 20, wherein the composite cylinder comprises a carbon fiber composite roll.